

**Overview:**

A-9H is an ARM based high-performance IoT Box PC, which has an open platform design with Quad Core processor Four RS-485 serial ports, one 10/100/1000 Ethernet ports, two USB 2.0 port and operating temperature range of -10~+55°C. Built-in Wi-Fi (2.4G+5G) modules. A-9H enables system integrators to develop applications precisely for renewable energy, EV charger, smart city and factories which require massive data collection, cloud based application and video related monitoring solutions.

**Specification:****CPU**

- TI Cortex-A53 ARM 1.4GHz

**Memory**

- LPDDR4 2GB onboard

**Storage**

- eMMC 32GB onboard
- USB flash drive

**GPU**

- PowerVR Rogue AXE-1-16M GPU (500 MTexels/s, >8GFLOPs)

**RTC**

- Built-in

**WDT**

- Support Watch dog timer

**I/O Interfaces**

- 1 x RJ-45 10/100M/1000M fast Ethernet with LED
- 2 x USB Host 2.0 type A
- 1 x HDMI for 1920 x 1080@60Hz output
- 4 x RS-485 2-wire
- WiFi (2.4G/5G) + 2x DBI Antenna (SMA)
- 1x Single-Pair Ethernet with power-over-data-line
- 24VDC

**Operating System**

- Linux (Debian 12 Xfe)

- Built-in Node-Red

**Dimensions**

- 150mm(H) x 120mm(W) x 50mm(L)

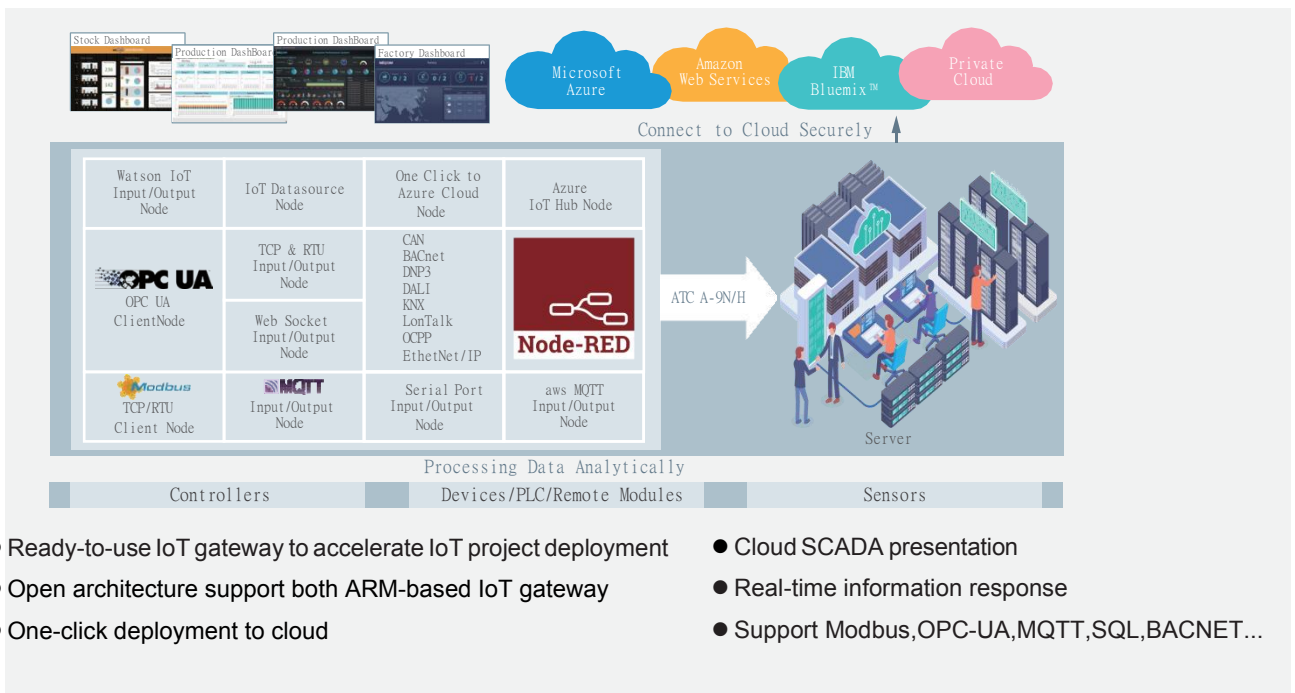
**Weight**

- 1.0kg

**Environment**

- Operating temperatures: -20°C to +70°C
- Storage temperatures: -20°C to +85°C
- Relative humidity: 90% (non-condensing)

## Application:



## Available Apps (More than 7000+ Apps)

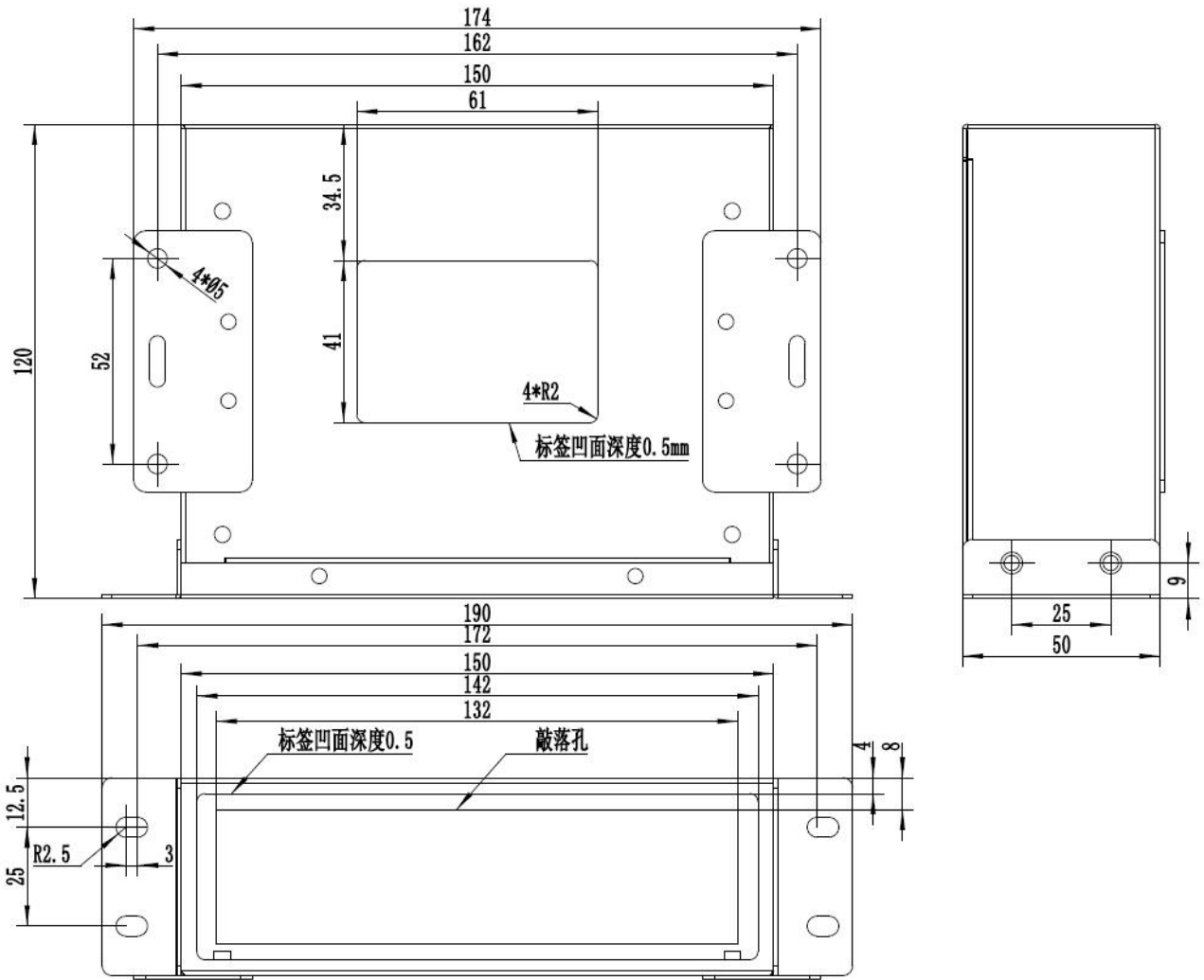
802.1X Authenticator  
 AT Modem Emulator  
 Azure IoT SDK Python3 API Version  
 2 Backup APN  
 Band Select  
 Bluetooth  
 Bondix S.A.NE Enterprise  
 Captive Portal  
 Cumulocity  
 CURL  
 Customer  
 Logo Daily  
 Reboot  
 DHCP based on MAC  
 OUI DHCP Relay (over IPsec) DNP3 Outstation  
 Docker  
 EasyVPN  
 Client  
 Ethernet Mirroring  
 Ethernet Port Detector  
 Event Notificator  
 Ext4\_tools  
 File Uploader  
 FOTA  
 FRR  
 GDB (GNU Debugger) GPS  
 HMPCClient  
 HTTPS Login Banner  
 L2TP Pseudowire  
 Layer 2 Firewall (L2FW)  
 Loopback  
 LUA  
 Midnight  
 Commander  
 Modbus logger  
 Modbus to LwM2M  
 Modbus to MQTT  
 MQTT Broker  
 MQTT Manager

NAT  
 NetFlow/IPFIX  
 NMAP  
 Node-RED  
 Node-RED AWS Node  
 Node-RED Azure Node  
 Node-RED Bluetooth Lode  
 Node-RED Dashboard  
 Node-RED dnp3 Node  
 Node-RED Filesystem Node  
 Node-RED FTP Node  
 Node-RED GPSd Node  
 Node-RED gzip Node  
 Node-RED KNX Node  
 Node-RED LwM2M Node  
 Node-RED Modbus Node  
 Node-RED OPC UA Node  
 Node-RED PLC EtherNet/IP Node  
 Node-RED PLC Melsec Node  
 Node-RED Splunk Node  
 Node.js  
 npm  
 NTP  
 NTRIP Client  
 OpenVPN Custom Config  
 Operating Hours Counter  
 Packet Splitter  
 PduSMS  
 Pinger  
 PLMN Whitelist  
 pppGateway  
 Protocol ALPHA-MODBUS  
 Protocol BGP  
 Protocol DF1-Ethernet  
 Protocol IEC101-104  
 Protocol IS-IS  
 Protocol MODBUS-RTU2TCP  
 Protocol MODBUS-RTUMAP

Protocol MODBUS-TCP2RTU  
 Protocol NHRP  
 Protocol OSPF  
 Protocol PIM-SM  
 Protocol RIP  
 Python  
 Python3  
 Python3 with pip  
 Samba  
 Scalable AI Manager  
 SCEP Client  
 Secure Syslog  
 SendReport  
 Serial to network proxy  
 Serial2TCP  
 Service Access Limitation  
 Sleep Mode  
 SSHClient  
 Stunnel  
 TCP SYN Keep-Alive  
 Technical Report 069 (TR-069)  
 Transparent mode  
 UDP Communication Watchdog  
 URL Blocker  
 USB over IP (Electronic Team)  
 USR LED Management  
 Vim  
 WebAccess/VPN (VPN Portal)  
 Web Terminal  
 WebAccess/DMP Client  
 WiFi SSID Switch  
 WiFi STA Relay  
 wM-BUS CONCENTRATOR  
 WoLGateway  
 XC-CNT FW update  
 Zabbix Agent  
 BACnet  
 OCCP

CAN  
 DALI  
 LonTalk  
 OpenAI  
 ngsi  
 Whatsapp-link  
 GSI  
 Line-api  
 Skype-api  
 google-apis  
 text2speech  
 paypal  
 shopify  
 sony-audio  
 visa-api  
 ebay-api  
 Rest-API  
 line-pay  
 web-push  
 zapier  
 pdf-to-png  
 ui-webcam  
 pdf-red  
 usb-camera  
 line-image-api  
 QR-Code  
 opencv  
 PID-controller  
 Mydb  
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**Outline Drawing:**



**Contact us**

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